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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/051,732	01/22/2002	John L. Johnson	AMPC 4986 8654		
7	590 10/13/2004	EXAMINER			
Legal Office		MAI, TAN V			
(AMSAM-L-G-1, Mr. Fred M. Bush) US Army Aviation and Missile Command			ART UNIT	PAPER NUMBER	
Redstone Arsenal, AL 35898-5000			2124		
			DATE MAILED: 10/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)				
		10/051,73	2	JOHNSON, JOHN L.				
Office Action Summary		Examiner		Art Unit				
		Tan V Mai		2124				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply we ply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no evenication. d days, a reply within the statuutory period will apply and will, by statute, cause the appl	nt, however, may a reply be tim tory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status								
2a)□	Responsive to communication(s) filed on 22 January 2002 . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)⊠ 6)⊠ 7)□	Claim(s) 1-10 is/are pending in the aptending of the above claim(s) is/are Claim(s) 1 and 6-8 is/are allowed. Claim(s) 2-5,9 and 10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	e withdrawn from cor						
Applicati	on Papers							
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	a) accepted or b) tion to the drawing(s) be the correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice	t (s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date <u>1/22/02</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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Art Unit: 2124

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 9-10 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for "an optical system for mathematical operations, the system comprising a plurality of phosphor objects", does not reasonably provide enablement for "an optical system for mathematical operations, the system comprising a phosphor object. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to made and/or use the invention commensurate in scope with these claims. The specification requires "coupling strength" (e.g., see page 5, first paragraph) and "two phosphors" (e.g., see page 6, first complete paragraph).

2. Claims 2-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 2, "claim 2" is mistyped.

3. Claims 2-5 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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4. The following is an examiner's statement of reasons for allowance: the recorded references do NOT teach or suggest the optical system for mathematical operations having the combination of phosphor objects, exciting means and quantifying means as recited in independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (703) 305-9761. The examiner can normally be reached on Tue-Fri from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned are:

Official

(703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

TAN V. MAI PRIMARY EXAMINEP